

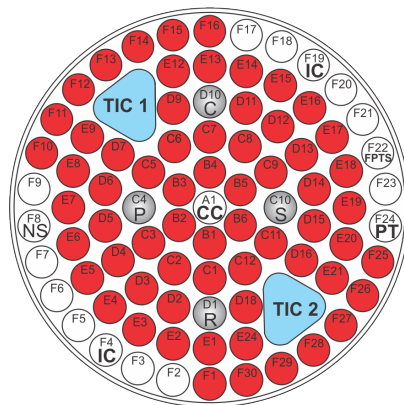
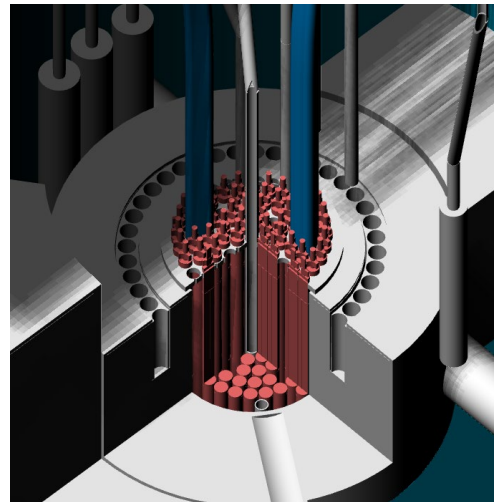
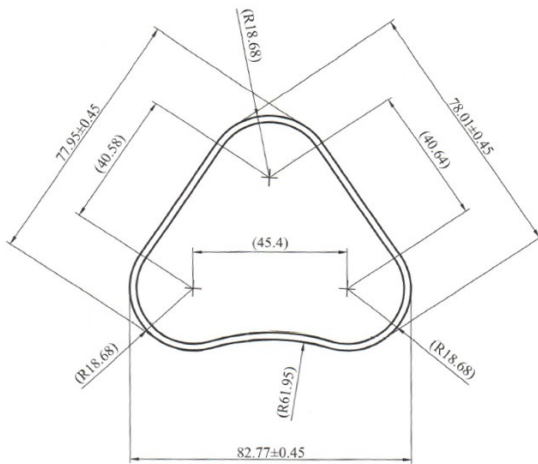
TRIANGULAR IRRADIATION CHANNELS 1 AND 2

Features:

- Dry tube.
- 5 cm in diameter, 20 cm high (see attached cross-section)
- Possible online irradiation (sample on cables).

Properties at 250 kW:

| Neutron flux [$\text{cm}^{-2}\text{s}^{-1}$] | Channel 1 | | Channel 2 | |
|--|-----------------------|-----------------------|-----------------------|----------------------|
| | Calculated | Measured | Calculated | Measured |
| Thermal (< 0.625 eV) | 2.69×10^{12} | | 2.63×10^{12} | |
| Epithermal ($0.625 - 10^5$ eV) | 3.38×10^{12} | | 3.31×10^{12} | |
| Fast ($> 10^5$ eV) | 3.88×10^{12} | | 3.80×10^{12} | |
| 1 MeV equivalent | 3.68×10^{12} | 3.81×10^{12} | 3.60×10^{12} | 3.5×10^{12} |
| Total | 9.96×10^{12} | | 9.74×10^{12} | |



- Fuel Element 20 % ^{235}U
- Control Rods
- NS Neutron Source
- IC Irradiation Channel
- FPTS Fast Pneumatic Transfer System
- PT Pneumatic Transfer System
- CC Central Irradiation Channel
- TIC Triangular Irradiation Channel

